| Index of Claims |          |   |          |          |          |          |   |                   |          |          | A           | Application/Control No. |                         |                          |         |              |                 |          |          |            | Applicant(s)/Patent under Reexamination |            |         |          |                     |         |         |   |
|-----------------|----------|---|----------|----------|----------|----------|---|-------------------|----------|----------|-------------|-------------------------|-------------------------|--------------------------|---------|--------------|-----------------|----------|----------|------------|---|------------|---------|----------|---------------------|---------|---------|---|
|                 |          |   |          |          |          |          |   |                   |          |          |             |                         | 4,                      | 10/822 720               |         |              |                 |          |          |            |   |            |         |          |                     |         |         |   |
|                 |          |   |          |          |          |          |   |                   |          |          |             |                         | 10/823,730<br>Examiner  |                          |         |              |                 |          |          |            |   | KIM ET AL. |         |          |                     |         |         |   |
|                 |          |   |          |          |          |          |   |                   |          |          |             |                         |                         |                          |         |              |                 |          |          |            | Arconic                                 |            |         |          |                     |         |         |   |
| _               | 115618   | 180181 11011 89181 18118 11888 11111 1888 11111 3811 1881 |          |          |          |          |   |                   |          |          |             |                         |                         | Louis D. Lieto           |         |              |                 |          |          |            |   |            | 1632    |          |                     |         |         |   |
|                 |          | _   |          |          |          |          |   |                   |          |          |             |                         |                         |                          | _       |              |                 |          |          |            |   |            |         |          |                     | _,      |         |   |
|                 |          | √ Rejected  |          | d        |          | -+       | (Through numer<br>Cancelled<br>Restricted |                   |          | ral)     | al)         |                         | N                       | Non-Elected Interference |         |              |                 | Α        | Appeal   |            |   |            |         |          |                     |         |         |   |
|                 |          | = Allowed   |          |          | $\dashv$ |          |   |                   |          |          |             | N                       | -                       |                          |         |              |                 |          |          |            |   |            | _       |          |                     |         |         |   |
|                 |          |   |          |          | t        |          |   |                   |          |          |             |                         |                         |                          |         |              | h               |          | 0        | Objected   |   |            |         |          |                     |         |         |   |
|                 |          |   |          |          |          | لب       |   | Ш                 |          |          | <del></del> |                         |                         |                          | L       | <u> </u>     |                 |          |          | )          | Ш                                       |            |         |          |                     |         |         |   |
| Cla             | im       | Date  |          |          |          |          |   |                   | Claim    |          |             |                         | Da                      |                          | ate     |              |                 | CI       | aim      | Γ          | Date                                    |            |         |          |                     |         |         |   |
| _               | <u>a</u> |   |          |          |          |          |   |                   |          | _        | al          |                         |                         |                          |         |              |                 |          | _        | -E         | П                                       |            |         |          |                     |         |         |   |
| Final           | Original |   |          |          | ŀ        |          |   |                   | İ        | Final    | Original    |                         |                         |                          |         |              |                 |          | Final    | Original   | H                                       |            |         | 1        |                     |         |         |   |
| "               | ŏ        |   |          | ı        |          |          |   |                   | ł        | "        | ŏ           |                         |                         |                          |         |              |                 |          | "        | ŏ          |   |            |         |          |                     |         | 1 1     |   |
| 1               | 1        | =   |          | $\dashv$ |          | 7        | $\dagger$                                 | $\dagger \dagger$ | _        |          | 51          | _                       | 1-1                     | $\dashv$                 | +       | 1            | H               | $\dashv$ |          | 101        | Ħ                                       | +          | ╁       | 1        | Ħ                   |         |         |   |
|                 | 2        |   |          |          |          | 1        |   |                   |          |          | 52          |                         |                         |                          |         |              |                 |          |          | 102        |   |            |         |          |                     |         |         |   |
|                 | 3        |   | _        | _        | _        | _        |   | $\perp$           | _        |          | 53          | _                       | 1 1                     | $\perp$                  |         |              |                 |          |          | 103        |   | $\perp$    |         |          |                     |         |         | • |
|                 | 5        | -   |          | _        | 4        | 4        | +   | $\vdash$          | _        | -        | 54<br>55    | _                       | +                       | _                        | +       | H            | $\vdash \vdash$ | $\dashv$ | ļ        | 104<br>105 |   | -          | +       | ╄        | $\vdash$            | +       | +       |   |
|                 | 6        | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +   | $\vdash$          | -        | -        | 56          |                         | +                       | -                        | +       | -            | $\vdash$        |          | ļ        | 105        | $\vdash$                                | ┿          | ╁       | ⊢        | $\vdash$            | +       | +       |   |
|                 | 7        |   | $\neg$   | $^{+}$   | +        | +        | +   | $\dagger \dagger$ | -        |          | 57          | _                       | +                       |                          | +       | ļ            |                 | ᅱ        |          | 107        | H                                       | 十          | -       | $\vdash$ | $\vdash$            | +       | +-1     |   |
|                 | 8        |   |          |          | T        |          |   |                   |          |          | 58          |                         |                         |                          |         |              |                 |          |          | 108        | П                                       | $\top$     |         |          | $\Box$              |         |         |   |
|                 | 9        |   |          |          | _        | $\bot$   |   |                   |          |          | 59          | $\bot$                  | $\square$               | $\perp$                  | $\perp$ |              |                 | _]       |          | 109        | $\Box$                                  | $\bot$     | $\perp$ |          |                     | $\perp$ |         |   |
| <u> </u>        | 10<br>11 |   | _        | +        | +        | -+       | +-  | +                 | _        | -        | 60<br>61    | -                       | +                       | _                        | +       | -            | 1               | _        | <u> </u> | 110        | Н                                       | -          | +       | <b>├</b> | $\vdash$            | -       |         |   |
|                 | 12       | -   | -        | $\dashv$ | +        | $\dashv$ | +   | ${}^{+}$          |          | $\vdash$ | 62          | -                       | +                       |                          | +-      | <del> </del> | -               | $\dashv$ |          | 111<br>112 | $\vdash$                                | +          | +       | ╁╌       | +                   | +       | +       |   |
| $\vdash$        | 13       |   | $\dashv$ | $\dashv$ | +        | $\dashv$ | +   | $\dagger \dashv$  | $\dashv$ |          | 63          | $\dashv$                | +                       | +                        | +       |              | $\vdash$        | ╣.       |          | 113        | $\vdash$                                | +          | +       |          | $\vdash$            | +       | +       |   |
|                 | 14       |   |          | 丁        | J        |          |   |                   |          |          | 64          |                         |                         | $\top$                   |         |              |                 |          |          | 114        |   |            | 1       |          |                     |         |         |   |
|                 | 15       |   |          | $\Box$   | $\Box$   |          | $\perp$                                   | П                 |          |          | 65          |                         |                         |                          |         |              |                 |          |          | 115        | П                                       |            |         |          |                     | I       |         |   |
|                 | 16       |   |          | $\dashv$ | _        | $\bot$   | _   | $\sqcup$          | _        |          | 66          | $\perp$                 | $\downarrow \downarrow$ | $\perp$                  | $\bot$  | $\sqcup$     | $\square$       | _        |          | 116        | $\sqcup$                                | _          | 1       | _        | $\sqcup \downarrow$ |         | $\perp$ |   |
| $\vdash$        | 17       | H   | _        | -        | 4        | +        | +   | $\dashv$          | 4        | <u> </u> | 67          |                         | +                       |                          | +       | -            | $\sqcup$        | $\dashv$ | <u> </u> | 117        | $\vdash \vdash$                         | +          | +-      | -        | $\vdash \vdash$     | 4       | +       |   |
|                 | 18<br>19 |   |          | +        | +        |          | +   | +                 | _        |          | 68<br>69    | +                       | +                       |                          | +-      | -            | $\vdash$        | $\dashv$ | -        | 118<br>119 | $\vdash$                                | -          | +       | ╁        | $\vdash$            | +       | +       |   |
| -               | 20       |   | -        | +        | $\dashv$ | +        | +   | +                 | -        | -        | 70          | +                       | +-+                     | +                        | ╁       |              | $\vdash$        | $\dashv$ |          | 120        | H                                       | +          | ╁       | +        | $\vdash$            | ╁       | +       |   |
|                 | 21       |   | $\dashv$ | 寸        | 7        | $\top$   | +   | $\dagger \dagger$ |          |          | 71          | $\top$                  | +                       | $\dashv$                 | +       | П            | +               | $\dashv$ |          | 121        | $\Box$                                  | $\dashv$   | +       | T        |                     | +       | +       |   |
|                 | 22       |   |          |          |          |          | $\perp$                                   |                   |          |          | 72          |                         |                         |                          |         |              |                 |          |          | 122        |   |            |         |          |                     |         |         |   |
|                 | 23       |   |          | 1        |          |          | Ţ   |                   |          |          | 73          |                         | Ш                       |                          |         |              |                 |          |          | 123        | П                                       | I          |         |          |                     | $\perp$ |         |   |
| 1 1             | 24       | 1 1   |          |          |          | - 1      | - 1                                       | 1 1               | - 1      | 1        | 74          | - 1                     | 1 1                     |                          | - 1     | 1            | 1               |          | I        | 124        |   |            | 1       | 1        | 1                   | - 1     | 1 1     |   |

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